### **ENVIRONMENTAL CHEMISTS**

Date of Report: 07/09/98 Date Received: 06/25/98

Project: Metro Self Monitor, PO# M76620

Date Samples Extracted: 07/07/98 Date Extracts Analyzed: 07/08/98

## RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

### Samples Processed Using Method 3005A Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	Nickel	Zinc
M76620	0.77	0.59	0.83	0.10
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

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Project: Metro Self Monitor, PO# M76620

### QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 806132-01 (Duplicate)

					Relative		
		Reporting	Sample	Duplicat	e Percent	Acceptan	ice
	Analyte	Units	Result	Result	Difference	e Criteria	a
Ä	Chromium	mg/L (ppm)	< 0.05	< 0.05	nm	0-20	
	Copper	mg/L (ppm)	0.72	0.72	0	0-20	
	Nickel	mg/L (ppm)	< 0.05	< 0.05	nm	0-20	
	Zinc	mg/L (ppm)	1.2	1.2	0	0-20	

Laboratory Code: 806132-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov		- J	•
Analyte	Units	Level	Result	MS	MSD	Criteria	RPD
Chromium	mg/L (ppm)	5	< 0.05	97	98	80-120	1
Copper	mg/L (ppm)	5	0.72	99	99	80-120	0
Nickel	mg/L (ppm)	10	< 0.05	97	100	80-120	3
Zinc	mg/L (ppm)	5	1.2	96	98	80-120	$\mathbf{\hat{2}}$

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recover	ry % Recove LCSD	ery Acceptance Criteria	e RPD	. **\\ )
Chromium Copper	mg/L (ppm) mg/L (ppm)	5 5	98 100	100 102	80-120 80-120	2	
Nickel Zinc	mg/L (ppm) mg/L (ppm)	10 5	99 96	100 96	80-120 80-120 80-120	1	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

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SAMPLE CHAIN OF CUSTODY

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06/09/97

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

July 9, 1998

#### **DUPLICATE COPY**

#### **INVOICE #98ACU0709-1**

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M76620: Results of testing requested by Gerry Thompson for material submitted on June 25, 1998.

FEDERAL TAX ID (b) (6)

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

July 9, 1998

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on June 25, 1998 from your Metro Self Monitor, PO# M76620 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Manuel Marti Project Manager

Enclosures ACU0709R.DOC